

GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:48:43 ; Search time 2351.15 seconds  
(without alignments)  
168.399 Million cell updates/sec

Title: US-09-851-670-16

Perfect score: 24  
Sequence: 1 gtccaagcagcagcaatttcgca 24

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1472140 seqs, 8248589755 residues

Total number of hits satisfying chosen parameters: 586436

Minimum DB seq length: 0  
Maximum DB seq length: 60

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

GenEmbl: \*  
1: gb\_ba: \*  
2: gb\_hlg: \*  
3: gb\_in: \*  
4: gb\_ov: \*  
5: gb\_ov: \*  
6: gb\_pat: \*  
7: gb\_ph: \*  
8: gb\_pl: \*  
9: gb\_pr: \*  
10: gb\_ro: \*  
11: gb\_sts: \*  
12: gb\_sy: \*  
13: gb\_un: \*  
14: gb\_vi: \*  
15: em\_ba: \*  
16: em\_fun: \*  
17: em\_hum: \*  
18: em\_in: \*  
19: em\_om: \*  
20: em\_or: \*  
21: em\_ov: \*  
22: em\_pat: \*  
23: em\_ph: \*  
24: em\_pl: \*  
25: em\_ro: \*  
26: em\_sts: \*  
27: em\_sy: \*  
28: em\_un: \*  
29: em\_vi: \*  
30: em\_higo\_hum: \*  
31: em\_higo\_inu: \*  
32: em\_higo\_tod: \*  
33: em\_hlg\_hum: \*  
34: em\_hlg\_inu: \*  
35: em\_hlg\_rod: \*  
36: em\_hlg\_other: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

8

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	14.6	60.8	27	6	AX049980	AX049980 Sequence
C 2	14.2	59.2	30	6	I49785	I49785 Sequence 8
C 3	14.2	59.2	44	6	A98898	A98898 Sequence 6
4	14	58.3	28	6	AR090191	AR090191 Sequence
5	14	58.3	51	6	AX158351	AX158351 Sequence
6	13.6	56.7	26	6	AR008926	AR008926 Sequence
7	13.6	56.7	26	6	AR087621	AR087621 Sequence
C 8	13.6	56.7	48	6	A06322	A06322 Artificial
C 9	13.6	56.7	48	6	A06323	A06323 Artificial
C 10	13.6	56.7	48	6	AX033196	AX033196 Sequence
C 11	13.4	55.8	41	6	A59035	A59035 Sequence 23
C 12	13.4	55.8	45	6	A59036	A59036 Sequence 24
C 13	13.2	55.0	19	6	AX130478	AX130478 Sequence
C 14	13.2	55.0	21	6	AX145829	AX145829 Sequence
C 15	13.2	55.0	23	6	AX111191	AX111191 Sequence
C 16	13.2	55.0	39	6	AR067715	AR067715 Sequence
C 17	13.2	55.0	39	6	AR079910	AR079910 Sequence
C 18	13.2	55.0	39	6	AR083849	AR083849 Sequence
C 19	13.2	55.0	39	6	I13243	I13243 Sequence 3
C 20	13.2	55.0	39	6	I21420	I21420 Sequence 3
C 21	13.2	55.0	39	6	I30304	I30304 Sequence 3
C 22	13.2	55.0	45	6	A67371	A67371 Sequence 12
C 23	13.2	55.0	47	6	AX114361	AX114361 Sequence
C 24	13.2	55.0	51	6	AX159777	AX159777 Sequence
C 25	13.2	55.0	51	6	AX159778	AX159778 Sequence
26	13.2	55.0	51	6	AX160740	AX160740 Sequence
27	13	54.2	23	6	AR090696	AR090696 Sequence
28	13	54.2	31	6	AX155961	AX155961 Sequence
29	13	54.2	31	6	AX155973	AX155973 Sequence
30	13	54.2	46	6	A20984	A20984 Oligonucleo
C 31	13	54.2	48	6	AR032596	AR032596 Sequence
C 32	13	54.2	48	6	I29336	I29336 Sequence 20
C 33	13	54.2	48	6	I91010	I91010 Sequence 20
C 34	13	54.2	51	6	AX159391	AX159391 Sequence
C 35	13	54.2	51	6	AX160312	AX160312 Sequence
36	12.8	53.3	19	6	AR016648	AR016648 Sequence
37	12.8	53.3	19	6	AR110271	AR110271 Sequence
38	12.8	53.3	20	6	I27757	I27757 Sequence 3
39	12.8	53.3	24	6	AR153416	AR153416 Sequence
C 40	12.8	53.3	29	6	AR145508	AR145508 Sequence
C 41	12.8	53.3	31	6	AR088617	AR088617 Sequence
C 42	12.8	53.3	35	11	C75921	C75921 Homo sapien
C 43	12.8	53.3	37	6	AR122688	AR122688 Sequence
C 44	12.8	53.3	42	6	AR079489	AR079489 Sequence
45	12.8	53.3	50	6	AX157240	AX157240 Sequence

## ALIGNMENTS

RESULT 1  
LOCUS AX049980/c 27 bp DNA PAT 12-JAN-2001  
DEFINITION Sequence 81 from Patent WO0070071.  
ACCESSION AX049980  
VERSION AX049980.1 GI:12226357  
KEYWORDS  
SOURCE  
ORGANISM  
synthetic construct.  
artificial sequence.  
REFERENCE  
1 (bases 1 to 27)  
Bout,A., Havenaga,M.J. and Vogels,R.  
Adenovirus derived gene delivery vehicles comprising at least one  
element of adenovirus type 35  
Patent: WO 0070071-A 81 23-NOV-2000;  
JOURNAL  
Introgene B.V. (NL)  
FEATURES  
Location/Qualifiers  
1..27  
/organism="synthetic construct"  
/db\_xref="taxon:32630"



AR008926  
LOCUS AR008926 26 bp DNA PAT 04-DEC-1998  
DEFINITION Sequence 51 from patent US 5756083.  
ACCESSION AR008926  
VERSION AR008926.1 GI:3967731  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 26)  
TITLE Elliot/S.G.  
JOURNAL Mpl ligand analogs  
FEATURES Patent: US 5756083-A 51 26-MAY-1998;  
Location/Qualifiers  
source 1..26  
BASE COUNT 8 a 7 c 8 g 3 t  
ORIGIN

Query Match 56.7%; Score 13.6; DB 6; Length 26;  
Best Local Similarity 80.0%; Pred. No. 2.8e+04;  
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ccaagcagcagcaattctg 22  
|||||  
Db 3 CCAAGCGCAGGACATTCTG 22

RESULT 7  
LOCUS AR087621 26 bp DNA PAT 07-SEP-2000  
DEFINITION Sequence 51 from patent US 5989538.  
ACCESSION AR087621  
VERSION AR087621.1 GI:10014384  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 26)  
TITLE Elliot/S.G.  
JOURNAL Mpl ligand analogs  
FEATURES Patent: US 5989538-A 51 23-NOV-1999;  
Location/Qualifiers  
source 1..26  
BASE COUNT 8 a 7 c 8 g 3 t  
ORIGIN

Query Match 56.7%; Score 13.6; DB 6; Length 26;  
Best Local Similarity 80.0%; Pred. No. 2.8e+04;  
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ccaagcagcagcaattctg 22  
|||||  
Db 3 CCAAGCGCAGGACATTCTG 22

RESULT 8  
LOCUS A06322/c 48 bp DNA PAT 15-JUL-1993  
DEFINITION Artificial sequence for HBV antigen.  
ACCESSION A06322  
VERSION A06322.1 GI:412823  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM artificial construct.  
REFERENCE 1 (bases 1 to 48)  
AUTHORS Bishop, D.H.L. and Kang, C.Y.  
TITLE Expression of hepatitis b viral antigens from recombinant baculovirus vectors

JOURNAL Patent: EP 0260090-A 3 16-MAR-1988;  
Bishop, David H.L.; Kang, Chll-Yong  
FEATURES Location/Qualifiers  
source 1..48  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
CDS 10..>48  
/codon\_start=1  
/transl\_table=11  
/product="HBV antigen"  
/protein\_id="CAA00538.1"  
/db\_xref="GI:412824"  
/translation="MWNSTALHQAQ"  
BASE COUNT 11 a 14 c 12 g 11 t  
ORIGIN

Query Match 56.7%; Score 13.6; DB 6; Length 48;  
Best Local Similarity 80.0%; Pred. No. 2.9e+04;  
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 gtccaagcagcagcaattc 20  
|||||  
Db 17 GTGCAAGCGCAGTGGAATTCC 36

RESULT 9  
LOCUS A06323 48 bp DNA PAT 15-JUL-1993  
DEFINITION Artificial sequence for HBV antigen, reverse complement.  
ACCESSION A06323  
VERSION A06323.1 GI:411244  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 48)  
AUTHORS Bishop, D.H.L. and Kang, C.Y.  
TITLE Expression of hepatitis b viral antigens from recombinant baculovirus vectors  
JOURNAL Patent: EP 0260090-A 4 16-MAR-1988;  
Bishop, David H.L.; Kang, Chll-Yong  
FEATURES Location/Qualifiers  
source 1..48  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
BASE COUNT 11 a 12 c 14 g 11 t  
ORIGIN

Query Match 56.7%; Score 13.6; DB 6; Length 48;  
Best Local Similarity 80.0%; Pred. No. 2.9e+04;  
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 gtccaagcagcagcaattc 20  
|||||  
Db 17 GTGCAAGCGCAGTGGAATTCC 36

RESULT 10  
LOCUS AX033196/c 48 bp DNA PAT 21-SEP-2000  
DEFINITION Sequence 7 from Patent W00046383.  
ACCESSION AX033196  
VERSION AX033196.1 GI:10280048  
KEYWORDS  
SOURCE Madagascari periwinkle.  
ORGANISM Catharantus roseus  
REFERENCE Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; euasterids I; Gentianales; Apocynaceae; Rauvolfioideae; Vincaeae; Catharantus.  
1 (bases 1 to 48)

AUTHORS Memelink, J., Kijne, J.W., Menke, F.L. and van der Fits, C.T.  
 TITLE Method of modulating metabolite biosynthesis in recombinant cells  
 JOURNAL Patent: WO 0046383-A 7 10-AUG-2000;  
 UNIV LEIDEN (NL); MEMELINK JOHAN (NL); FITS CORNELIA THEODORA  
 ELISABE (NL); KIJNE JAN WILLEM (NL); MENKE FRANK LEONARDUS  
 HENDRIKU (NL)

FEATURES  
 SOURCE Location/Qualifiers

1. .48  
 /organism="Catharanthus roseus"  
 /db\_xref="taxon:4058"

BASE COUNT 10 a 14 c 8 g 16 t  
 ORIGIN

Query Match 56.7%; Score 13.6; DB 6; Length 48;  
 Best Local Similarity 80.0%; Pred. No. 2.9e+04;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 gtccaagcagagcaattc 20  
 Db 47 GTCCAAGCAGANATCCTTTC 28

RESULT 11  
 A59035/c 41 bp DNA PAT 06-MAR-1998  
 LOCUS Sequence 23 from Patent EP0753581.  
 A59035  
 VERSION A59035.1 GI:3714470  
 KEYWORDS  
 SOURCE unidentified.  
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 41)  
 AUTHORS Schaefflinger, F.D., Antoine, G.D., Falkner, Falke-Guenther, D.,  
 Dörner, F.P. and Eibl, J.D.  
 TITLE Improved recombinant eukaryotic cytoplasmic viruses, method for  
 JOURNAL their production and their use as vaccines  
 IMMUNO AG (AT)  
 Patent: EP 0753581-A 23 15-JAN-1997;

FEATURES  
 SOURCE Location/Qualifiers

1. .41  
 /organism="unidentified"  
 /db\_xref="taxon:32644"

BASE COUNT 10 a 11 c 13 g 7 t  
 ORIGIN

Query Match 55.8%; Score 13.4; DB 6; Length 41;  
 Best Local Similarity 93.3%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 tccaagcagagcaaa 16  
 Db 16 TCCAAGCAGAGGCCA 2

RESULT 12  
 A59036 45 bp DNA PAT 06-MAR-1998  
 LOCUS Sequence 24 from Patent EP0753581.  
 A59036  
 VERSION A59036.1 GI:3714471  
 KEYWORDS  
 SOURCE unidentified.  
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 45)  
 AUTHORS Schaefflinger, F.D., Antoine, G.D., Falkner, Falke-Guenther, D.,  
 Dörner, F.P. and Eibl, J.D.  
 TITLE Improved recombinant eukaryotic cytoplasmic viruses, method for  
 JOURNAL their production and their use as vaccines  
 Patent: EP 0753581-A 24 15-JAN-1997;

FEATURES  
 SOURCE IMMUNO AG (AT)  
 Location/Qualifiers

1. .45  
 /organism="unidentified"  
 /db\_xref="taxon:32644"

BASE COUNT 8 a 14 c 12 g 11 t  
 ORIGIN

Query Match 55.8%; Score 13.4; DB 6; Length 45;  
 Best Local Similarity 93.3%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 tccaagcagagcaaa 16  
 Db 30 TCCAAGCAGAGGCCA 44

RESULT 13  
 AX130478 19 bp DNA PAT 15-MAY-2001  
 LOCUS Sequence 1696 from Patent WO0130362.  
 AX130478  
 VERSION AX130478.1 GI:14136783  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 19)  
 AUTHORS Robbins, J.M. and Trletz, R.  
 TITLE Ribozyme therapy for the treatment of proliferative skin and eye  
 JOURNAL diseases  
 Patent: WO 0130362-A 1696 03-MAY-2001;  
 IMMUSOL, INC. (US)

FEATURES  
 SOURCE Location/Qualifiers

1. .19  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /note="Cyclin C ribozyme binding site"

BASE COUNT 8 a 2 c 4 g 5 t  
 ORIGIN

Query Match 55.0%; Score 13.2; DB 6; Length 19;  
 Best Local Similarity 83.3%; Pred. No. 4.5e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 tccaagcagagcaatt 19  
 Db 2 TCCAAGTAGAGGAATT 19

RESULT 14  
 AX145829 21 bp DNA PAT 31-MAY-2001  
 LOCUS Sequence 20 from Patent WO0134840.  
 AX145829  
 VERSION AX145829.1 GI:14284347  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 21)  
 AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
 TITLE Genetic compositions and methods  
 JOURNAL Patent: WO 0134840-A 20 17-MAY-2001;  
 GLAXO GROUP LIMITED (GB); Affymetrix, Inc. (US)

FEATURES  
 SOURCE Location/Qualifiers

1. .21  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"

variation 1..21  
 BASE COUNT 6 a 4 c 4 g 6 t 1 others  
 ORIGIN

Query Match 55.0%; Score 13.2; DB 6; Length 21;  
 Best Local Similarity 78.9%; Pred. No. 4.5e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 agcgagagcaattctgca 24  
 || ||||| ||||| ||  
 Db 20 ATGAAGAGCNAATTCTCTCA 2

# RESULT 15

AX111191 23 bp DNA PAT 30-APR-2001  
 LOCUS  
 DEFINITION Sequence 1924 from Patent WO0123604.  
 ACCESSION AX111191  
 VERSION AX111191.1 GI:13927483

KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 artificial sequence.

REFERENCE 1 (bases 1 to 23)  
 AUTHORS Bergeron,M.G., Boissinot,M., Huletsky,A., m Nard,C., Ouellette,M.,  
 Picard,F.J. and Roy,P.H.

TITLE Highly conserved genes and their use to generate probes and primers  
 JOURNAL for detection of microorganisms  
 Patent: WO 0123604-A 1924 05-APR-2001;

FEATURES  
 Infectio Diagnostic (I.D.I.) INC. (CA)  
 Location/Qualifiers

Source 1..23  
 /organism="synthetic construct"  
 /db\_xref="taxon:32630"  
 /note="Oligonucleotide"  
 BASE COUNT 4 a 5 c 4 g 10 t  
 ORIGIN

Query Match 55.0%; Score 13.2; DB 6; Length 23;  
 Best Local Similarity 83.3%; Pred. No. 4.5e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 tcgaagcgagcaattt 19  
 ||||| || ||||| ||  
 Db 5 TCCAATGCTGAGCACTTT 22

Search completed: March 9, 2002, 00:48:44  
 Job time: 11125 sec

**THIS PAGE BLANK (USPTO)**